#### DECLARATION FOR PATENT APPLICATION

Attorney Docket No: 062020-1430

As the below named inventor(s), I/we hereby declare that:

Our residences, post office addresses and citizenships are as stated below next to our names. We believe we are the original, first, and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled PIEZOELECTRIC ON SEMICONDUCTOR-ON-INSULATOR MICROELECTROMECHANICAL RESONATORS AND METHODS OF FABRICATION, the specification of which:

Ø	is attached hereto.		
	was filed on as Application Serial No		
	was filed on under U.S. Express Mail No.	·	
	is set forth in PCT International Application No.	;	
	filed on and as amended Under PCT Artic	le 19 on	(if any).

I/we hereby state that I/we have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I/we hereby claim foreign priority benefits under Title 35, United States Code, 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America listed below and have also identified below any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed: **NOT APPLICABLE**.

I/we hereby appoint all attorneys and agents of Thomas, Kayden, Horstemeyer & Risley, LLP, who are listed under the USPTO Customer Number shown below as my/our attorneys and agents to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, recognizing that the specific attorneys and agents listed under that Customer Number may be changed from time to time at the sole discretion of Thomas, Kayden, Horstemeyer & Risley, LLP, and request that all correspondence be addressed to the address filed under the same USTPO Customer Number.

### 24504

Please address all telephone calls, in the first instance, to **Scott A. Horstemeyer** at telephone number: (770) 933-9500.

Address all correspondence to:

Scott A. Horstemeyer
THOMAS, KAYDEN, HORSTEMEYER
& RISLEY, L.L.P.
100 Galleria Parkway, N.W., Suite 1750
Atlanta, Georgia 30339-5948

I/we hereby declare that all statements made herein of my/our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statement and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

	Inventor: <u>Farrokh Avazi</u> Piedmont Avenue, N.E., #612, Atlanta, Ga. 30309
Citizenship:	Iran
Post Office Address:	
Inventor's Signature:	Jarrach cangaz   Date: July 25th, 2003

Full Nam	me of Second Inventor: Gianluca Plazza			
	Residence: Via Marzagalli 18. Lodi 26900 Italy Citizenship: Italy Post Office Address:			
	Inventor's Signature: Chaulie Came	Date: _	7/28/2003	

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Full Name of Third Inventor Reza Abdolvand	
Residence: 329152 Georgia Tech Station. Atlanta. Ga. 303 Citizenship: Iran Post Office Address:	332
1 ost Office Address:	
Inventor's Signature: S. Molyand B	Date:
Inventor's Signature: S. Howard B	Date:

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Name of Fourth Inventor: Gavin Kar-Fai Ho Residence: 202 Hunnicut t Street N.W., Atlanta, Ga. 303 Citizenship: Canada Post Office Address:	313-2025
Inventor's Signature:	Date: July 25, 2003

Name of Fifth Inven Residence: 334895 C Citizenship: India Post Office Address:	tor: <u>Shweta Humad</u> Georgia Tech Station, Atlan	1ta, Ga, 3033	32	
Inventor's Signature:	Suck		Date: July 25 <sup>th</sup> , 2003	

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## ASSIGNMENT OF UTILITY PATENT APPLICATION

WHEREAS, the following parties:

<u>Name</u>	Address
Farrokh Ayazi	1130 Piedmont Avenue, N.E., #612 Atlanta, GA 30309
Gianluca Piazza	Via Marzagalli 18 Lodi 26900 Italy
Reza Abdolvand	329152 Georgia Tech Station Atlanta, GA 30332
Gavin Kar-Fai Ho	202 Hunnicutt St NW Atlanta, GA 30313-2025
Shweta Humad	334895 Georgia Tech Station Atlanta GA 30332

hereinafter referred to as ASSIGNOR, has/have invented certain new and useful improvements ("invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled:

## PIEZOELECTRIC ON SEMICONDUCTOR-ON-INSULATOR MICROELECTROMECHANICAL RESONATORS AND METHODS OF FABRICATION,

which was:

$\boxtimes$	executed on even date herewith,	
	filed with the United States Patent and Trademark Office (USPTO) on	, and
	assigned Serial No., and	
$\boxtimes$	further described in U.S. Provisional application entitled Method Of Fabri	ication For
	Piezoelectrially-Transduced Soi-Based Single-Crystal-Silicon Micro-Elec	tro-
	Mechanical Resonators With Electrostatic Frequency Tuning Mechanism,	, filed with
	the USPTO on August 1, 2002, and assigned Serial No. 60/400,030.	

Note: Only one of the first two checkboxes will be checked. The third checkbox will be checked, only if appropriate.

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WHEREAS, GEORGIA TECH RESEARCH CORPORATION, having a place of business at 505 Tenth Street NW. Atlanta, Georgia 30332-0415, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in and to said invention(s), said utility application, said provisional application, and any U.S. and foreign patents which are related to the same.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has sold, assigned and transferred and does hereby sell, assign and transfer unto ASSIGNEE, and ASSIGNEE'S successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said invention(s), said utility application, and said provisional application and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for said inventions, including all corresponding provisional, continuation, continuation-in-part, divisional, reissue, and reexamination applications; and (b) the entire right, title and interest in and to said invention(s), said utility application, and said provisional application for all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them.

ASSIGNOR authorizes ASSIGNEE to make application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

ASSIGNOR hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of ASSIGNEE to apply for patent or other form of protection for said inventions, said utility application, or said provisional application and to claim the aforesaid benefit of the right of priority.

ASSIGNOR requests that any and all patents for said inventions be issued to ASSIGNEE in the U.S. and to ASSIGNEE in all countries foreign to the U.S., or to such nominee as ASSIGNEE may designate.

ASSIGNOR covenants and agrees that, when requested, ASSIGNOR shall, without charge to ASSIGNEE but at ASSIGNEE'S expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with the patent applications, patents, or other forms of protection of said invention(s), and for the defense and protection thereof if challenged in the court of law.

ASSIGNOR authorizes ASSIGNEE or its agents to insert, on ASSIGNOR's behalf, the filing date and/or serial number above pertaining to the utility application and/or the provisional application, if not known as of the date of execution of this document.

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(Patent Assignment)

	Charles Henry
	Giarduca Piazza
Date: 7/28/2003	•
United States of America	
State of California	
County of Alamada	
On this 18th day of July Piazza to me known to be the individual described instrument, or acknowledged execution of the same	, 20 03, before me personally came Giantuca d above and who executed the foregoing ac.
MICHAEL, JANES THOMPSON Commission # 1347312 Note: 7 Public - Celifornia Contra Costa County My Cornt. Emires Mar 19, 2008	Notary Public March 19, 2006
	My Commission Expires (Date)

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	Sarrokh Angazi
	Farrokh Ayazi
Date: July 25, 2003	
United States of America	
State of	
County of	
On this 25th day of July  Ayazi to me known to be the individual described al instrument, or acknowledged execution of the same.	

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	RADDOMAND . G
-/ -/ -	Reza Abdolvand
Date: $\frac{7/24/03}{}$	·
United States of America	
State of	
County of	
On this 24th day of July Abdolvand to me known to be the individual descrinstrument, or acknowledged execution of the sam	
	SHERRIE COOPER NOTARY PUBLIC, FULTON COUNTY, GEORGIA MY COMMISSION EXPIRES MARCH 24, 2006
	My Commission Expires (Date)

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Gavin Kar-Fai Ho

Date: 7/24/03

United States of America

State of

County of

Notary Public

SHERRIE COOPER NOTARY PUBLIC, FULTON COUNTY, GEORGIA MY COMMISSION EXPIRES MARCH 24, 2008

My Commission Expires (Date)

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(Patent Assignment)

	lweb
	Shweta Humad
Date: 1/24/03	
United States of America	
State of	•
County of	
On this 244bday ofHumad to me known to be the individual dinstrument, or acknowledged execution of	escribed above and who executed the foregoing
	Sherre Dopon
	Notary Public
	SHERRIE COOPER NOTARY PUBLIC, FULTON COUNTY, GEORGIA MY COMMISSION EXPIRES MARCH 24, 2008
	My Commission Expires (Date)